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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/611,737

07/01/2003

David R. Robins

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EXAMINER

NGUYEN, ALLEN H

ART UNIT

PAPER NUMBER

2625

MAIL DATE

DELIVERY MODE

06/18/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/611,737	Applicant(s) ROBINS, DAVID R.	
	Examiner ALLEN H. NGUYEN	Art Unit 2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03/04/2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 29-31, 36 and 37 is/are pending in the application.
- 4a) Of the above claim(s) 1, 2, 4-8 and 10 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 29-31, 36 and 37 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. This application contains claims 1-2, 4-5, 6-8, 10 are drawn to an invention nonelected with traverse in the reply filed on 03/04/2008. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Response to Arguments

2. Applicant's arguments with respect to claims 29-31, 36-37 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 29-31, 36-37 are rejected under 35 U.S.C. 102 (b) as being anticipated by Barry et al. (US 5,859,711).

Regarding claim 36, Barry '711 discloses a system for printing a plurality of digital images (i.e., a multiple print engine for printing a multi-page, multiple-

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copy document; Col. 3, lines 50-52, fig. 1), the system comprising:

first image processing means (Virtual Job Router 354, fig. 12) for performing image processing on a first set of images including fewer than all of the digital images to produce a first plurality of processed images (i.e., the black and white job is routed to a first job block 356; Col. 14, lines 61-62, fig. 12);

print engine activation means (Job Manager 360, fig. 12) for activating a print engine to print the first plurality of processed images (i.e., the job manager will route the black and white job to a first virtual engine, represented by a block 362, which has associated therewith four black and white print engines 364; Col. 14, lines 65-67, fig. 12);

first printing means (Print Engines 364 , fig. 12) for printing the first plurality of processed images using the print engine (i.e., the job manager will route the black and white job to four black and white print engines 364; Col. 14, lines 65-67).

Regarding claim 37, Barry '711 discloses the system, further comprising:

second image processing means (Virtual Job Router 354, fig. 12) for performing image processing on a second set of images including fewer than all of the digital images to produce a second plurality of processed images (i.e., the color job is routed to a second job block 358; Col. 14, lines 62-63, fig. 12);

second printing means (Virtual Job Routing, fig. 12) for printing the second plurality of processed images without stopping and reactivating the print engine (i.e., virtual job routing is that a particular page can have the parameters thereof

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examined after the page has been assembled separate from the initial multi-page print job, and a determination made as to how to handle that particular job. This will allow the job to be routed to the most efficient engine. Therefore, the print engine can run continuously and efficiently; Col. 15, lines 20-25).

Regarding claims 29-30, claims 29-30 are the method claims of device claims 36-37, respectively. Therefore, method claims 29-30 are rejected for the reason given in device claims 36-37.

Regarding claim 31, Barry '711 discloses the method,
wherein said performing image processing on a first set of images including fewer than all of the digital images to produce a first plurality of processed images (i.e., the black and white job is routed to a first job block 356; Col. 14, lines 61-62, fig. 12) is performed by a print client (i.e., all decision making is made in the processor 14; Col. 5, line 40, fig. 1),

wherein said performing image processing on a first set of images including fewer than all of the digital images to produce a first plurality of processed images (i.e., the process is initiated at the software RIP in a block 350, which is operable to retrieve the initial multi-page document and the RIP the document into separate pages; Col. 14, lines 49-52), activating a print engine to print the first plurality of processed images (i.e., which pages are separate and distinct and have associated therewith parameters that define the nature of the document as to printing; Col. 14, lines 52-55);

printing the first plurality of processed images using the print engine (i.e.,

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the job to be routed to the most efficient engine; Col. 15, line 24) are performed by a print server (Processor 14, fig. 1), and wherein the method further comprises:

at the print client (Processor 14, fig. 1), transmitting the first plurality of processed images to the server over a communications bus (i.e., the engine manager 28 interfaces with the PCI 32 through a parallel bus 36, such that data can be transferred thereto at a fairly high data rate, which is the bus transfer data rate of the processor 14; Col. 5, lines 14-17, fig. 2).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ritchie (US 2004/0073783) discloses computer system with operating system on a ram-disk.

Burkes et al. (US 2004/0179226) discloses accelerating printing.

Inoue et al. (US 6,456,388) discloses printer enclosing network computer and computer network system employing the same.

Hatta et al. (US 2005/0117948) discloses printing system and printing method.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALLEN H. NGUYEN whose telephone

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number is (571)270-1229. The examiner can normally be reached on M-F from 9:00 AM-6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, King Poon can be reached on (571)-272-7440. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/King Y. Poon/
Supervisory Patent Examiner, Art Unit 2625

/A. H. N./

Examiner, Art Unit 2625